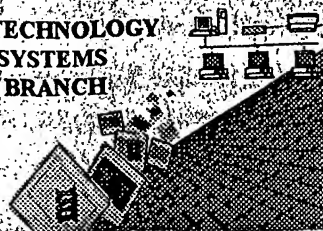


BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer-readable form:

Application Serial Number: 10/029,206
Source: OLPE
Date Processed by STIC: 8/14/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY.

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/029,206

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ☐ Wrapped Nucleics
Wrapped Aminos
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 ☐ Invalid Line Length
The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 ☒ Misaligned Amino
Numbering
The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 ☐ Non-ASCII
The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 ☐ Variable Length
Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 ☐ PatentIn 2.0
"bug"
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 ☐ Skipped Sequences
(OLD RULES)
Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 ☐ Skipped Sequences
(NEW RULES)
Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 ☐ Use of n's or Xaa's
(NEW RULES)
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.
- 10 ☐ Invalid <213>
Response
Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 ☐ Use of <220>
Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 ☐ PatentIn 2.0
"bug"
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 ☐ Misuse of n
n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



OIPE

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/029,206

DATE: 08/14/2002
 TIME: 09:51:04

Input Set : A:\Sequence Listing.txt
 Output Set: N:\CRF3\08142002\J029206.raw

3 <110> APPLICANT: Khan, Nisar A.
 4 Benner, Robert
 6 <120> TITLE OF INVENTION: Gene regulator
 8 <130> FILE REFERENCE: 2183-5222US
 10 <140> CURRENT APPLICATION NUMBER: 10/029,206
 11 <141> CURRENT FILING DATE: 2001-12-21
 13 <150> PRIOR APPLICATION NUMBER: 09/821,380
 14 <151> PRIOR FILING DATE: 2001-03-29
 16 <160> NUMBER OF SEQ ID NOS: 175
 18 <170> SOFTWARE: PatentIn Ver. 2.1

**Does Not Comply
 Corrected Diskette Needed**

pg 1-2

ERRORED SEQUENCES

2269 <210> SEQ ID NO: 173
 2270 <211> LENGTH: 7
 2271 <212> TYPE: PRT
 2272 <213> ORGANISM: Artificial Sequence
 2274 <220> FEATURE:
 2275 <223> OTHER INFORMATION: Description of Artificial Sequence: NMPF-56
 2276 peptide
 2278 <400> SEQUENCE: 173
 2279 Val Ala Pro Ala Leu Pro Gln

E--> 2280

2282 <210> SEQ ID NO: 174
 2283 <211> LENGTH: 17
 2284 <212> TYPE: PRT
 2285 <213> ORGANISM: Artificial Sequence
 2287 <220> FEATURE:
 2288 <223> OTHER INFORMATION: Description of Artificial Sequence: NMPF-71
 2289 peptide
 2293 <400> SEQUENCE: 174
 2294 Met Thr Arg Val Leu Pro Gly Val Leu Pro Ala Leu Pro Gln Val Val

E--> 2295

2297 Cys
 2299 <210> SEQ ID NO: 175
 2300 <211> LENGTH: 10
 2301 <212> TYPE: PRT
 2302 <213> ORGANISM: Artificial Sequence
 2304 <220> FEATURE:
 2305 <223> OTHER INFORMATION: Description of Artificial Sequence: NMPF peptide
 2307 <400> SEQUENCE: 175
 2308 Cys Arg Gly Val Asn Pro Val Val Ser

see p. 2, also

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/029,206

DATE: 08/14/2002

TIME: 09:51:04

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF3\08142002\J029206.raw

E--> 2309

1

5

PYI
Use of n and/or Xaa has been detected in the Sequence Listing.
Review the Sequence Listing to insure a corresponding
explanation is presented in the <220> to <223> fields of
each sequence using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/029,206

DATE: 08/14/2002

TIME: 09:51:05

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF3\08142002\J029206.raw

L:1270 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:97
L:1275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:97 after pos.:0
L:1289 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:98
L:1294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98 after pos.:0
L:2280 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:173
L:2295 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:174
L:2309 M:252 E: No. of Seq. differs, <211> LENGTH:Input:10 Found:9 SEQ:175